

PATENT COOPERATION TREATY

PCT

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY



PCT

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 5000762313	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/KR2005/001032	International filing date(day/month/year) 11 APRIL 2005 (11.04.2005)	Priority date (day/month/year) 13 APRIL 2004 (13.04.2004)
International Patent Classification (IPC) or national classification and IPC B65D 85/804(2006.01)i		
Applicant NexSol Technologies, Inc. et al		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising: <ul style="list-style-type: none"> a. <input type="checkbox"/> (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows: <ul style="list-style-type: none"> <input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4. This report contains indications relating to the following items: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Box No. I Basis of the report <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement <input type="checkbox"/> Box No. VI Certain documents cited <input type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application

Date of submission of the demand 06 SEPTEMBER 2005 (06.09.2005)	Date of completion of this report 18 APRIL 2006 (18.04.2006)
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer HAN, JU CHULL Telephone No. 82-42-481-5464 

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2005/001032

Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☒ This report is based on translations from the original language into the following language English which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
- ☒ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☒ the international application as originally filed/furnished
- ☐ the description:
- pages _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the claims:
- pages _____ as originally filed/furnished
- pages* _____ as amended (together with any statement) under Article 19
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the drawings:
- pages _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-7	YES
	Claims		NO
Inventive step (IS)	Claims	1-7	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-7	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: US 3143955 A (ERNEST B. ROCKWELL) 11 August 1964

D2: US 5082676 A (HAG GF AKTIENGESELLSCHAFT) 21 January 1992

D1 relates to a machine for brewing beverage servings, preferably individual servings, by flowing water through successive water-perVIOUS compartments which are longitudinally spaced apart along a ribbon or tape and which contain the material from which the beverage is to be extracted.

D2 relates to a cassette for producing coffee by the cup or pot and for use with a liquid receptacle having an internal locking flange. The cassette comprises a ring defining an interior and forming a bottom annular groove to receive the locking flange of the liquid receptacle and thereby to hold the cassette in place therein. The cassette further includes a plurality of ribs connected to and extending across the ring and separating the interior thereof into a multitude of sections, and coffee particles disposed in said sections.

(1) Novelty (N) and Inventive Step (IS)

The present invention provides a pod for packaging a variety of soluble contents easily and extracting them simply. The pod includes an o-ring (20) inserted between two sheets of rectangular packaging means (12a, 12b), and is formed to have a three-dimensional shape by attaching upper and lower portions of the side margins (51) defined by the inserted o-ring (20). A mechanical interfacing means is provided at the side margins of the pod to thereby mechanically interface and convert the pod and connect one or more pods side by side so that they can be extracted mechanically by means of an extraction device corresponding to the mechanically interfaced and converted pod.

(Continued on Supplemental Sheet.)

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Box No V

Said o-ring (20), side margins (51) and mechanical interfacing means of the present invention are not rendered obvious from the prior art, and there is a striking difference between the present invention and the cited inventions of D1 and D2.

Therefore, the subject-matter of claims 1, 2, 6 and 7 are considered to be novel (PCT Article 33(2)) and to involve an inventive step (PCT Article 33(3)).

Claims 3 to 5 comply with the requirements of PCT Article 33(2) and 33(3) as they are dependent on claims 1, 2, 6 and 7.

(2) Industrial Applicability (IA)

It is considered that the present invention is industrially applicable to a machine interfaced coffee pods including an o-ring, a brewing method thereof and an extraction device thereof, which have an effect in packaging several soluble extracts including coffee with ease and quite simple.

Therefore, claims 1 to 7 meet the requirement of PCT Article 33(4).